AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Original) A mutant human α-synuclein having decreased aggregation forming ability.
- 2. (Original) A mutant human α -synuclein having the amino acid sequence comprising at least one of the following amino acid substitution in the amino acid sequence set forth in SEQ ID NO: 1: Gly68; Ala69; Val70; Val71; Thr72; Val74; Val77; and Val82.
- 3. (Original) A mutant human α -synuclein having the amino acid sequence which comprises at least one of the following amino acid substitutions in the amino acid sequence set forth in SEQ ID NO: 1:

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substitution of Gly68 with threonine or valine;
substitution of Ala69 with threonine, valine or lysine
substitution of Val70 with threonine, proline or phenylalanine;
substitution of Val71 with threonine or lysine;
substitution of Thr72 with valine or glutamic acid;
substitution of Val74 with threonine;
substitution of Val77 with threonine;
substitution of Val82 with lysine.
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- 4. (Original) A mutant human α -synuclein comprising the amino acid substitutions Ala69Lys / Val70Thr / Val71Lys / Thr72Glu in the amino acid sequence set forth in SEQ ID NO: 1.
- 5. (Original) A mutant human α -synuclein comprising the amino acid substitutions Ala69Lys / Val70Thr / Val71Lys / Thr72Glu and Val82Lys in the amino acid sequence set forth in SEQ ID NO: 1.
- 6. (Original) A gene coding for the mutant human α -synuclein claimed in any one of claims 1 to 5.
- 7. (Original) A recombinant plasmid comprising the gene claimed in claim 6 introduced therein.
- 8. (Original) A transformant transformed with the recombinant plasmid claimed in claim 7.
- 9. (Original) A process for producing a mutant human α-synuclein comprising the steps of:
 - (a) introducing the gene claimed in claim 6 into a plasmid to prepare a recombinant plasmid;
 - (b) transforming a host with the recombinant plasmid of (a) to prepare a transformant; and
 - (c) culturing the transformant of (b) to produce the mutant human α -synuclein.

- 10. (Original) A composition for inhibiting aggregation of the wild type human α -synuclein, Ala53Thr mutant human α -synuclein or Ala50Pro mutant human α -synuclein, comprising the mutant human α -synuclein claimed in any one of claims 1 to 5.
- 11. (Original) A method for inhibiting aggregation of the wild type human α -synuclein, Ala53Thr mutant human α -synuclein or Ala50Pro mutant human α -synuclein in a cell, tissue or organism, comprising contacting the cell, tissue or organism with the mutant human α -synuclein claimed in any one of claims 1 to 5.
- 12. (Currently Amended) A peptide having a sequence of 10 or more contiguous amino acid residues in the following amino acid sequence:

Gln-Val-Thr-Asn-Val-Gly-Gly-Ala-Thr-Thr-Thr-Gly-Val-Thr-Ala-Val-Ala-Gln (SEQ ID NO: 22).

- 13. (Currently Amended) A peptide having the following amino acid sequence: Val-Gly-Gly-Ala-Thr-Thr-Gly-Val-Thr (SEQ ID NO: 23).
- 14. (Original) A composition for inhibiting aggregation of the wild type human α -synuclein, Ala53Thr mutant human α -synuclein or Ala50Pro mutant human α -synuclein, comprising the peptide claimed in claim 12 or 13.

15. (Original) A method for inhibiting aggregation of the wild type human α -synuclein, Ala53Thr mutant human α -synuclein or Ala50Pro mutant human α -synuclein in a cell, tissue or organism, comprising contacting the cell, tissue or organism with the peptide claimed in claim 12 or 13.